## **EAST Search History**

| Ref<br># | Hits   | Search Query  | DBs                                       | Default<br>Operator | Plurals | Time Stamp       |
|----------|--------|---|---|---------------------|---------|------------------|
| L1       | 14099  | (switch\$3 or revers\$3) with (cancel\$4 or cancellation or remov\$3) with output                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 08:46 |
| L2       | 565    | 1 with (avoid or prevent\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 08:47 |
| L3       | 50117  | transistor near3 pair   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 08:47 |
| L4       | 29     | 2 and 3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 08:50 |
| L5       | 767    | (sub-mixer or submixer or mixer)<br>same polarity same (cancel\$4 or<br>cancellation or remov\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR _                | ON      | 2006/12/15 09:47 |
| L6       | 171    | 5 same (prevent\$3 or avoid)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 09:00 |
| L7       | 145    | 6 same output   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 08:52 |
| L8       | 4      | 3 and 7   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 08:54 |
| L9       | 7139   | 455/313-333,118,110-113.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 08:57 |
| L10      | 13     | 7 and 9   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 08:58 |
| L11      | 117469 | "455"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR                  | ON      | 2006/12/15 08:58 |

## **EAST Search History**

|     | 1      |  |   |    |      |                  |
|-----|--------|--|---|----|------|------------------|
| L12 | 46     | 7 and 11   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON . | 2006/12/15 08:58 |
| L13 | 33     | 12 not 10  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 08:58 |
| L14 | 45     | (sub-mixer or submixer or mixer) with polarity with (cancel\$4 or cancellation or remov\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:00 |
| L15 | 0      | 14 with (prevent\$3 or avoid) with output  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:00 |
| L16 | 0      | 14 with (prevent\$3 or avoid)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:01 |
| L17 | 13     | 11 and 14  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:37 |
| L18 | 110844 | "327"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:37 |
| L19 | 3      | 14 and 18  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:37 |
| L20 | 344    | (sub-mixer or submixer or mixer) same ((switch\$3 or polarity or revert\$3 or revers\$3) with (cancel\$4 or cancellation or remov\$3) with output) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:43 |
| L21 | 87     | 11 and 20  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:44 |
| L22 | 44     | 21 and (avoid or prevent\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:47 |
| L23 | 162    | 20 same ((cancel\$4 or cancellation or remov\$3) near7 output)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON   | 2006/12/15 09:48 |

## **EAST Search History**

|     |      |   | -   |      |    |                  |
|-----|------|---|---|------|----|------------------|
| L24 | 10   | 23 and (transistor near3 pair)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR   | ON | 2006/12/15 10:05 |
| L25 | . 11 | ("20040214547" or "20020160740" or "6959179" or "7130604" or "20020055348" or "20030176177" or "6901249" or "20040051122" or "20060148440" or "20060003727" or "20060229046").pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR . | ON | 2006/12/15 10:07 |
| L26 | 10   | 25 and polarity   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR   | ON | 2006/12/15 10:31 |
| L27 | 1    | 25 and (LO with phase with equal)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR   | ON | 2006/12/15 10:33 |
| L28 | 7    | 25 and (equal)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR   | ON | 2006/12/15 10:58 |
| L29 | 4    | 25 and "45"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR   | ON | 2006/12/15 11:00 |
| L30 | 35   | (phase adj2 differen\$2) with LO with equal   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR   | ON | 2006/12/15 11:00 |
| L31 | 4    | 30 with adjacent  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR . | ON | 2006/12/15 11:01 |